

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

EMARK OFFICE						
	Patent A	pplication of	}			
Josef GIESSLER et al.			{	Group Art Unit: 3722		
Application No.: 10/642,43			{	Examiner: [Not Assigned]		
Filed:	August 18, 2003		\	Confirmation No.: 1920		
For:	For: DRILLING OR MILLING TOOL AND) PROCESS FOR ITS MANUFACTURE)					
INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER						
Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450						
Sir:						
Enclosed is an Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.						
	[√]	No additional fee for submission of an IDS is required.				
enclos	[] The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.					
	[] A statement under 37 C.F.R. § 1.97(e) is also enclosed.					
	[]	A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.				
	[]	Charge \$ to Deposit Account No. 02-4800 for the fee due.				
	[] A check in the amount of \$ is enclosed for the fee due.					
The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.						
			Respectfully	submitted,		
			BURNS, DOAN	e, Swecker & Mathis, L.L.P.		
Date: March 10, 2004 By: Alan E. Ko Registrati				Kopecki ion No. 25,813		

P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Josef GIESSLER et al.)) Group Art: 3722
Application No. 10/642,343) Examiner [Not Assigned]
File: August 18, 2003) Confirmation No. 1920
Title: DRILLING OR MILLING TOOL AND PROCESS FOR ITS MANUFACTURE))

SECOND INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

In keeping with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby make of record those references cited in related counterparts by the European and German Patent Offices. The cited references are identified by the attached German and European Search Reports as well as an Information Disclosure Citation form (PTO-1449).

DE-43 26 595 was submitted by an Information Disclosure Statement dated January 8, 2004.

In the European Search Report, DE-196 08 185 and U.S. Patent 5,888,036 have been designated as particular importance to claim 1. However, whereas the present invention is dealing with transition from a rake angle of the front cutting edge, towards the different helix angle of the chip flutes, German Offenlegungsschrift No. 196 08 185 does not show any rake angle which might be different from the helix angle of the chip flute at all; instead, from Figs. 7 and 8 it appears that the rake angle γ of the front cutting edge is just the same as the helix angle of the chip flute, as is typical for helical drills. Fig. 1 of this document shows a special drill having a negative rake angle which, however, again appears to be constant and not deviating from the helix angle of the chip flutes.

DE-196 08 185 deals with a varying side rake angle, which is the rake angle of the minor cutting edge extending along the edge of the chip flutes and which is measured towards the radius, i.e., in a horizontal plane, while the rake angle of the front cutting edge is to be measured within a vertically extending plane.

Also, although Arai et al. U.S. Patent 5,888,036 defines a chip flute angle and a "second cutting angle θ 2" and "third cutting angle θ 3", the definition of those angles (see Fig. 4) appears to have nothing to do with the presently claimed rake angle.

It is respectfully requested that acknowledgment of this filing be made concurrent with issue of an Official communication in the present application.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Alan E. Kopecki

Registration No. 25,813

Post Office Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620

Date: March 10, 2004

Substitute for forms 1449A/PTO & 1449B/PTO				ATTORNEY'S DKT NO. APPLIC		HEET <u>1</u> OF		
SECC	ND INFORMA	ATION DISC	LOSURE	APPLICANT Josef GIESSLER et a	al			
SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT			FILING DATE GROUP			· · · · · · · · · · · · · · · · · · ·		
				August 18, 2003	3722			
2004 <u>y</u>								
**************************************		U	S. PATENT D	OCUMENTS				
Examiner Initials	Raminer Document Kind Code Name of P		lame of Patentee or Applican of Cited Document			Issue/Publication Date (MM-DD-YYYY) 03/30/1999		
			ARAI et al.					
			- ·					
			-					
					····		-	
						ļ		

		FOR	FIGN PATENT	DOCUMENTS		<u> </u>		
Examiner Initials	Document Kind Code Number (if known) Country		Date of Publication (MM-DD-YYYY)		Trans	slatio		
miliais	196 08 185	(II KIIOVIII)	G	RMANY	09/11/199		1.55	Τ̈́
	GM78 35 107		G	ERMANY	05/03/1979			
	636 586		G	ERMANY	10/15/1933			Т
	WO 02/20216		ï	PCT/AU	03/14/2002			
	WO96.35537			PCT/US	11/14/199	6		\vdash
								<u> </u>
				URE DOCUMENTS				
Examiner	Includ item (book	, magazine, journ	al, serial, symposi	ERS), title of the article (wher um, catalog, etc.), date, page((s), volume-issue	of the number	r(s),	

		i e
Cuaminan	Date	
Examiner	Date	I .
0:	Considered	1
Signature	Considered	;

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.